PROSAFE-RS OPTICAL ESB

Product Data Sheet

SNT401-53 S1

Optical ESB Master Module

CURRENT CONSUMPTION	CONNECTION TOPOLOGIES	MAXIMUM OPTICAL STAGES	TOTAL OPTICAL DISTANCE
0.5 A	**Star and chain**	**2**	**Up to 5 km across two stages**

Yokogawa SNT401-53 S1 provides the master end of a ProSafe-RS optical ESB connection. Its electrical side joins the safety control or node ESB interface, while its optical side extends that bus to a matched slave. Star and chain connections are supported, including duplex configurations with separate bus 1 and bus 2 modules.

01 TECHNICAL DATA

Current consumption	0.5 A
Connection topologies	Star and chain
Maximum optical stages	2
Total optical distance	Up to 5 km across two stages
Minimum SENG revision	R1.02
Minimum SCS revision	R1.02
Explosion-protection suffix	5: no explosion protection
Temperature suffix 3	-20 to 70 C; maintenance version
Environmental suffix 3	ISA Standard G3
Optical connector	LC; IEC 61754-20

Yokogawa GS 32Q06L16-31E, seventh edition, 2019; applicable SNT401/SNT501 specifications and installation restrictions.;

02 ADDITIONAL PRODUCT DATA

Optical fiber specification	Quartz single-mode; JIS C 6835 SSMA-9.3/125 or IEC 60793-2-50 B1.1
Optical fiber cores	2 cores
Optical wavelength	1.3 micrometres
Permissible optical path loss	0 to 16 dB
Laser safety class	Class 1; IEC 60825

03 PRODUCT FUNCTION

The manufacturer specifies 0.5 A consumption, a maximum of two optical stages and a standard combined path up to 5 km for SNT401/SNT501. The final 3 suffix belongs to the ISA G3, -20 to 70 C maintenance version, and the first 5 suffix denotes no explosion protection. A 10 km combined path is conditional on the listed Vnet/IP revision.

04 SYSTEM COMPATIBILITY

A duplex installation uses two adjacent repeater positions. Assign bus 1 to the odd position and bus 2 to the even position, and keep both module suffixes identical. This arrangement is separate from the choice of star or chain topology.

05 REFERENCE

Yokogawa GS 32Q06L16-31E, seventh edition, 2019; applicable SNT401/SNT501 specifications and installation restrictions.; Yokogawa IM 32Q06C10-31E, sections 4.5 and Table 4.5-2.

AMIKON PRODUCT SUPPORT

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